

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number
WO 2004/060081 A1

- (51) International Patent Classification⁷: **A23L 1/305**,
A61K 38/40, A23L 1/30, 1/29, A61P 1/00
- (21) International Application Number:
PCT/NL2004/000006
- (22) International Filing Date: 7 January 2004 (07.01.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
03075031.9 7 January 2003 (07.01.2003) EP
- (71) Applicant (for all designated States except US): **N.V. NUTRICIA** [NL/NL]; P.O. Box 1, NL-2700 MA Zoetermeer (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **M^YRABET, Laura** [NL/NL]; Gele plomp 38, NL-3824 WK Amersfoort (NL). **POTAPPEL-VAN 't LAND, Belinda** [NL/NL]; Nijenbeek 15, NL-3772 ZE Barneveld (NL).
- (74) Agents: **VAN WESTENBRUGGE, Andries et al.**; Nederlandsch Octrooibureau, Scheveningseweg, P.O. Box 29720, NL-2502 LS The Hague (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD OF IMPROVING NUTRIENT UTILISATION BY A MAMMAL AND A COMPOSITION FOR USE THEREIN

(57) Abstract: The present invention relates to a method of stimulating nutrient utilisation, especially through improved gastric emptying, comprising oral administration of a nutritional composition. More particularly, the invention is concerned with a method of improving nutrient utilisation by a mammal comprising orally administering a lactoferrin containing nutritional composition to the mammal in an amount effective to reduce the residence time of nutrients in the stomach of the mammal, said composition exhibiting a weight ratio of lactoferrin to β -lactoglobulin that exceeds 1 to 15. Another aspect of the invention relates to a pourable nutritional composition suitable for use the aforementioned method, said composition having a caloric content of at least 1.0 kcal/ml, a viscosity of 100 mPa.s or less at 21 °C and comprising: 50-79.6 wt.% water; at least 0.4 wt.% lactoferrin; 1-30 wt.% proteinaceous matter other than lactoferrin; 0.1-20 wt.% lipids; and 10-30 wt.% carbohydrates; wherein the combination of these components constitutes at least 80 wt.% of the composition and wherein the proteinaceous matter, lipids and/or carbohydrates together constitute at least 20 wt.% of the composition.